



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Ag Da
PO038993	THY001-VC	1	1	Net 30	M6061T6B0.750X00.125	6061-T6 Bar .750 X .125 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					80	2/14/2018	80	9042709	Stock	2/15/2018	\$ 0.72 / ft	
		3			M6061T6B1.500X04.00	6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					12		12	9042710	Stock	2/15/2018	\$ 18.78 / ft	
									Total:	92		92						

Plex 2/15/2018 1:48 PM Dart.Dubois.Pascal

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

① DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7



DATE: 02/14/2018
 DOC. NO: 2405749557*
 BOL. NO: 2405749557
 ORDER NO: 1403522958
 YOUR P/O: 038993
 CUSTOMER NO: 10058125
 Route: 303UA
 CONTACT: Stan Ivers
 TEL: 905-532-1350 ext 21350
 FAX: 905-738-9033 ext 9033
 EMAIL: STAN.IVERS@THYSSENKRUPP.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

**** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
0010 ALREC00630		1 PC	1008277843
	6061 T6511 Aluminum Extruded Rectangular	85 lb	
	1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length		
	Nominal Chemistry/Act Physical		
	Standard Packaging		
TAGNUM	QTY	UOM VEND	VENDPO
PCS			HLOT
2001303921	1	PC	Z00662041
Total Gross Weight			1
SAE AMS-QQ-A-200/8 1997; ROHS COMPLIANT ASTM B 221 2014			91.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

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EMAIL: STAN.IVERS@THYSSENKRUPP.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance



thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE



DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
 DOC. NO: 2405749556*
 BOL. NO: 2405749556
 ORDER NO: 1403522958
 YOUR P/O: 038993
 CUSTOMER NO: 10058125
 Route: 303UA
 CONTACT: Stan Ivers
 TEL: 905-532-1350 ext 21350
 FAX: 905-738-9033 ext 9033
 EMAIL: STAN.IVERS@THYSSENKRUPP.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

**** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT ****

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
0010	ALREC00778 6061 T6511 Aluminum Extruded Rectangular 0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length Nominal Chemistry/Act Physical Standard Packaging	4 PC 10 lb	1008277841
	TAGNUM QTY UOMVEND VENDPO		
	PCS		
	2001303919 4	PC CAN ART A 5400372675 3B7050	4
	SAE AMS-QQ-A-200/8 1997;ROHS COMPLIANT ASTM B 221 2014	Total Gross Weight	28.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
DOC. NO: 2405749556*
BOL. NO: 2405749556
ORDER NO: 1403522958
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CUSTOMER NO: 10058125
Route: 303UA
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David Noordine - Director of Quality Assurance





Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038993

E-MAILED
FEB 09 2018

Supplier:	THY001-VC Thyssenkrupp Materials CA Ltd O/A VPK Metal- c/o T27540 PO Box 4275, Postal "A" Toronto ON M5W 5V8 Canada Phone: 905 669 9444 Fax: 905 738 9033	PO No: PO038993 PO Date: 2/8/18 Due Date: 2/14/18 Purchase Order Revision: Revision Date: Ship-To Contact: Lavoie, Chantal Phone: clavoie@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via: Ground Pymt Terms: Net 30 Freight Terms: Special Comments: quote no. 1202990461

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6B00750X00.125		6061-T6 Bar .750 X .125 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	80 ft	0 ft	80 ft	\$0.72/ft	\$57.60
2	M6061T6B1.000X12.000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$37.22/ft	\$446.64
3	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$18.78/ft	\$225.36

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$22.26/ft	\$267.12
5	M6061T6S0.3125X6.250		6061-T651 Sheet 0.3125" Thick Plate x 6.250" Wide	Firmed	2/14/18	12 ft	0 ft	12 ft	\$12.40/ft	\$148.80
										Grand Total: \$1,145.52

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 part notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/9/18 11:07 AM dart.lavoie.chantal

QUOTE

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

TEL: 613-632-5200
 FAX: 613-632-5246

DATE:	02/05/2018
QUOTE NO:	1202990461
YOUR INQUIRY:	
ATTENTION TO:	CHANTAL LAVOIE
TEL:	613-632-5200
CUSTOMER NO:	10058125
DEPARTMENT:	CAN TOR INS 01
CONTACT:	Teresa Volpe
TEL:	
FAX:	
EMAIL:	Teresa.Volpe@thyssenkrupp.com

PAGE 1 OF 4

Thank you for allowing us to quote on your requirement. Delivery contingent upon date ordered.

Delivery Address

DART AEROSPACE LTD, 1270 ABERDEEN ST, HAWKESBURY, ON K6A 1K7, CANADA
 Unloading Point: UNLOAD POINT 1

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0010	ALFLR01588 2024 Aluminum T3 Sheet 0.12500 (+-.0035) X Width 48.0000 (+-.125) X Length 144 (+-.125) ASTM B209 2014 ROHS COMPLIANT SAE AMS 4037 Q SAE AMS-QQ-A-250/4B 2015 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 03/08/2018		2 PC 172.800 LB	491.01 CAD 1 PC	982.02
0020	ALREC00246 6061 T6511 Aluminum Extruded Rectangular 0.37500 (+-.008) X 2.5000 (+-.024) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		1 PC 12 FT 13.236 LB	5.42 CAD 1 FT	65.04
0030	ALFLR74857 6061 Aluminum T651 Plate 0.31200 X Width 6.2500 +.125/-0.000 X Length 144.5000 Plate Sawing - Standard Actual Chemistry/Act. Physical Standard Packaging Delivery Date: 02/09/2018		1 PC 27.614 LB	155.00 CAD 1 PC	155.00

QUOTE

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

DATE: 02/05/2018
 QUOTE NO: 1202990461
 YOUR INQUIRY:
 ATTENTION TO: CHANTAL LAVOIE
 TEL: 613-632-5200

PAGE 2 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0040	ALREC00778 6061 T6511 Aluminum Extruded Rectangular 0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		4 PC 80 FT 8.800 LB	0.72 CAD 1 FT	57.60
0050	ALREC13956 6061 T6511 Aluminum Extruded Rectangular 1.00000 X 12.0000 X 144 Mill Length Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		1 PC 12 FT 169.344 LB	37.22 CAD 1 FT	446.64
0060	ALREC00191 6061 T6511 Aluminum Extruded Rectangular 1.00000 (+-.012) X 8.0000 (+-.054) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		1 PC 12 FT 112.896 LB	25.87 CAD 1 FT	310.44
0070	ALREC35126 6061 T6511 Aluminum Extruded Rectangular 3.00000 X 14.0000 X 95.5000 Mill Length Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		1 PC 7.958 FT 393.078 LB	130.28 CAD 1 FT	1,036.77

**OFFERING. ITEM REQUESTED
 NOT AVAILABLE/ SUBJECT TO
 PRIOR SALE**

QUOTE

thyssenkrupp Materials NA 2821 Langstaff Road Concord ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

DATE: 02/05/2018
 QUOTE NO: 1202990461
 YOUR INQUIRY:
 ATTENTION TO: CHANTAL LAVOIE
 TEL: 613-632-5200

PAGE 3 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0080	ALREC00630 6061 T6511 Aluminum Extruded Rectangular 1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		1 PC 12 FT 84.672 LB	18.78 CAD 1 FT	225.36
0090	ALREC00023 6061 T6511 Aluminum Extruded Rectangular 1.00000 (+-.012) X 6.0000 (+-.044) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018		4 PC 48 FT 338.688 LB	18.17 CAD 1 FT	872.16
0100	ALREC00245 6061 T6511 Aluminum Extruded Rectangular 3.00000 (+-.024) X 6.0000 (+-.044) X 48 RBW Cutting - Standard +.125/-0.00 Cut To Length 48.0000 " 1 ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/09/2018		1 PC 4 FT 84.672 LB	64.55 CAD 1 FT	258.20

* OFFERING

QUOTE

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

DATE: 02/05/2018
QUOTE NO: 1202990461
 YOUR INQUIRY:
 ATTENTION TO: CHANTAL LAVOIE
 TEL: 613-632-5200

PAGE 4 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
					CAD
0110	ALREC00692 6061 T6511 Aluminum Extruded Rectangular 2.00000 (+-.024) X 3.5000 (+-.024) X 144 RBW Cutting - Standard +.125/-0.000 Cut To Length 144.0000 " 1 ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/09/2018		1 PC 12 FT 100.800 LB	22.26 CAD 1 FT	267.12
	Weight total		1,506.600 LB		4,676.35
	Items total				4,676.35
	Net Amount				607.94
	GST				5,284.29
	TOTAL				

Payment Terms: Within 30 days without deduction
 Delivery Terms: PPD (gem. Incoterms 2000) PREPAID
 Shipping Condition: General Delivery

COMPUTER GENERATED OFFER AND VALID WITHOUT SIGNATURE.

Please review the above items for accuracy.
 Prices are quoted as price in effect at time of shipment.
 Our standard terms and conditions apply should this quote become an order.

For terms and conditions please refer to website at <http://www.tkmna.com/tkmna/Resources/CustomerService/index.html>

Any obvious damage must be noted on the material delivery documentation at the time of receipt.
 Tax exemption status documentation must be forwarded to credit department prior to order approval.
 All returned material subject to restock charge

ORDER CONFIRMATION

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

TEL: 613-632-5200
 FAX: 613-632-5246

DATE: 02/09/2018
ORDER NO: 1403522958 *
 YOUR P/O: 038993 dtd. 02/05/2018
 ATTENTION TO: CHANTAL LAVOIE
 TEL: 613-632-5200
 CUSTOMER NO: 10058125
 DEPARTMENT: CAN TOR INS 01
 CONTACT: Stan Ivers
 TEL: 905-532-1350 ext -21350
 FAX: 905-738-9033 ext 9033
 EMAIL: STAN.IVERS@THYSSENKRUPP.COM
 * please state on all documents

We thank you for your order which we confirm as follows:

Delivery Address

DART AEROSPACE LTD, 1270 ABERDEEN ST, HAWKESBURY, ON K6A 1K7, CANADA
 Unloading Point: UNLOAD POINT 1

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0030	ALFLR74857 6061 Aluminum T651 Plate 0.31200 X Width 6.2500 +.125/-0.000 X Length 144.5000 Plate Sawing - Standard Actual Chemistry/Act. Physical Standard Packaging Order Number: 038993 Delivery Date: 02/16/2018 Energy Surcharge		1 PC 27.614 LB	155.00 CAD 1 PC	155.00 25.00
	Item total:				180.00
0040	ALREC00778 6061 T6511 Aluminum Extruded Rectangular 0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/14/2018		4 PC 80 FT 8.800 LB	0.72 CAD 1 FT	57.60

ORDER CONFIRMATION

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7
 Canada

DATE: 02/09/2018
ORDER NO: 1403522958 *
 YOUR P/O: 038993 dtd. 02/05/2018
 ATTENTION TO: CHANTAL LAVOIE
 TEL: 613-632-5200
 * please state on all documents

PAGE 2 OF 3

ITEM	DESCRIPTION	QTY1 UOM	PRICE CUR PER UOP	TOTAL CAD
		QTY2 UOM		
		QTY3 UOM		
0050	ALREC13956 6061 T6511 Aluminum Extruded Rectangular 1.00000 X 12.0000 X 144 Mill Length Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/22/2018	1 PC 12 FT 169.344 LB	37.22 CAD 1 FT	446.64
0080	ALREC00630 6061 T6511 Aluminum Extruded Rectangular 1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/14/2018	1 PC 12 FT 84.672 LB	18.78 CAD 1 FT	225.36
0110	ALREC00692 6061 T6511 Aluminum Extruded Rectangular 2.00000 (+-.024) X 3.5000 (+-.024) X 144 RBW Cutting - Standard +.125/-..000 Cut To Length 144.0000 " 1 ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/20/2018	1 PC 12 FT 100.800 LB	22.26 CAD 1 FT	267.12
Weight total				
391.230 LB				
Items total				
1,176.72				
Net Amount				
1,176.72				
GST				
152.98				
TOTAL				
1,329.70				

ORDER CONFIRMATION

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/09/2018
ORDER NO: 1403522958 *
YOUR P/O: 038993 dtd. 02/05/2018
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200
* please state on all documents

PAGE 3 OF 3

Payment Terms: Within 30 days without deduction
Delivery Terms: PPD (gem. Incoterms 2000) TRANSFER TRUCK
Shipping Condition: General Delivery

Please review the above items for accuracy.
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Any obvious damage must be noted on the material delivery documentation at the time of receipt.
Tax exemption status documentation must be forwarded to credit department prior to order approval.
All returned material subject to restock charge

CAN ART
ALUMINUM EXTRUSION L.P.

Material Test Report

Manifest: 332218

Ticket:
5568056

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Our Order: **440212 - 3** Cust P.O.: 286874

Die: ES05513

Part: 05513-000-144

Alloy Temper: 6061 T6511

Description: .250 x .750

Print Date: 11/7/17

Chemical Composition Range

6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
429099	3B7050	B11	11/7/17	44.57	41.45	14.8

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6B1.500XC400
 DATE: FEB 15 2018

PO / BATCH NO.: C382FA3/SC4271C

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12"
 QUANTITY INSPECTED: 12"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: 11A
 SHEET SIZE RECEIVED: 11A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Astian B271</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Heateff 200X65XC41</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 FEB 15 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

THYSSENKRUPP MATERIALS NA

PART NO.

PO/Rel

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-000000-000

Pg 1/1



KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:				
PEC-286509-1		472/STK		1.500 X 4.000 SC RECT BAR				
KAISER ORDER NUMBER:	LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:		TEMPER:	
6038888	001		09/19/2017	Z00652041	6061		T6511	
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAFT/THKNS:	WIDTH:		LENGTH:	
1016.000 LB	12.000 PCS		620356				12.000 FT	
SHIP TO:	SOLD TO:							
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA							

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00652041	0001	0001	49.7	46.0	15.2	RE	92	N/A
Z00652041	0001	0002	50.6	47.3	13.4	RE	93	N/A
Z00652041	0002	0001	51.8	48.8	13.6	RE	93	N/A
Z00652041	0002	0002	50.1	46.7	15.1	RE	94	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107696	.74	.29	.30	.11	.93	.09	.07	.03	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00303453

Kaiser Order Number: 6038888

Line Item: 001

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061t6B0.750x00.125
 DATE: FEB 15 2018

PO / BATCH NO.: 038993/5042709

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 80"
 QUANTITY INSPECTED: 80"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 00.125"
 THICKNESS RECEIVED: 00.125"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Aston D221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Heat # 367050
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> 9-89	SIGNED OFF BY: _____
DATE: <u>FEB 15 2018</u>	DATE: _____

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SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△
B

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

C

RELEASED
R 2009-06-03
[Signature]

B

B

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211(B221 (ZN D7-1))	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>RJS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED		REV. B	
MFG APPR.		SHEET 1 OF 1	
APPROVED		M6061T6B	
DE APPR.		TITLE	
DATE	09.07.13	6061-T6 BAR	
		SCALE	
		NTS	

8

6

5

3

2

1

D

C

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A